T BOOK

nsions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8

BR- 222/30/6/17

SBR - 54/17-18 dt- 30/6/17

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Erection of pump - 354623

rial No. ... I^st and Final Bill

me of Work ... Energy, water supply to drilling of borewell,

From ... To ...

me of Contractor of nature of Agency ... under in Munishwara block ward no. 8. Kadigehalli

te of commencement of work ... sub division.

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Estt. cost:- Rs. 4,99,000/-						
	Job code no:- 008-14-000041						
	AS/NO:- Addl. comm (Y)/Adm/508/2013-14, dt: 23/12/2013.						
	TS/NO:- EB(BYP)/TS/255/2013-14, dt: 23/12/2013.						
	Agency:- KREDL(W)						
	Workcode NO:- EB/BTP/KREDL/WO/565/2013-14, dt: 28/2/2014						
	Date of commencement:- 9/2/17						
	Date of completion:- 25/4/17						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1)	Geophysical investigation of site for sinking borewell for supplying drinking water to the MWS or P.W.S.S by vertical sounding by adopting gruner or schlibergen method, including interpretation of geological formation graphical investigation recommendation report of existing ground water in the vicinity, its quality, and acceptability of the same, indicating the location of site, recommended depth of 100 mtr. in consolidated formation for proper seating of casing pipe, depth of drilling required, to connect full depth of aquifer proposed to be tapped probable yield and other instructions required including transportation and accessory. to work site. engaging technical person and labours required. etc:						
	= Qty vide premeasurement ref MB No: 2585/14-15 page no: 2584 to 2587	1.00 No	@ Rs. 1957.00/No			Rs. 1957.00	

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency ...
ame of Commencement of work .....

Date	Full description, etc, of work
	2
2)	Sinking borewell of capacity 250 BSP mm at burden upto 20 m. casing and thereby including all changes and completing the bored depth with excluding cost of casing
	= Qty
a)	0.00 m to 50.00 m
b)	50.00 to 100.00 mtr

NT BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
sinking borewell for supplying ow through the hand Pump, ng by adopting power or maintance truck of geological tr- ing ground water in the g the area, indicating the depth wise. in consolidated formation ts of drilling required, to obtain tapped probable yield and after and accurately. to work out r required. etc:			
uch ref MB No: 2585/14-15			
o: 258470			
Rs 1957.50/No		Rs. 1957.50	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354624

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
24	Sinking borewell of 165mm dia clear upto hydraulic rig of capacity 250 PSI and above 900 CFM and above hp all steadily including down burden upto 20 m. fixing of casing pipe collars and cap, with temporary cutting and threading including transportation of rig and supporting vehicles, crew charges and cost of consumables etc in complete including yield testing at the final depth with a minimum work in one compressing for an hour (excluding cost of casing pipe collars cap etc).						
	= Qty vide premeasurement ref					MB No.	2585/14-15
	Page No: 258470/2 Sl No 471						
(a)	0.00 M to 50.00 Mtrs	50.00	Meter	Rs. 295.61	Meter	Rs.	14781.00
(b)	50.00 to 100.00 Mtr	50.00	Meter	Rs. 390.37	Meter	Rs.	19519.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(c)	100.0 to 150.0 mtr	50.0	Rmtr	@ Rs. 434.66/	Rmtr	Rs.	21733.0
(d)	150.0 to 200.0 mtr	50.0	Rmtr	@ Rs. 477.92/	Rmtr	Rs.	23896.0
(e)	200.0 to 250.0 mtr	50.0	Rmtr	@ Rs. 528.39/	Rmtr	Rs.	26420.0
(f)	250.0 to 300.0 mtr	15.0	Rmtr	@ Rs. 566.50/	Rmtr	Rs.	8498.0
	Additional item						
(a)	20.0 to 30.0 mtr	10.0	mtr	@ Rs. 44.34/	mtr	Rs.	443.0
	above 30.0 mtr	20.0	mtr	@ Rs. 88.68/	mtr	Rs	1774.0

rial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	Nu
	2	
(b)	Above 30.0 mtr	1
3)	Supplying of ISI marked grade, of steel fe 410 4270: 2001, and latest ed conforming to IS 1387/ or basic oxygen process, thereby conforming to IS 4270: 2001, and the reasonably free from

NT BOOK

nensions		Contents	Reference to last Measureme
Breadth 5	Depth 6	7	8
Rh. 434.66/ Rmtr		Rs.	21733.00
Rh. 477.92/ Rmtr		Rs.	23896.00
Rh. 528.39/ Rmtr		Rs.	26420.00
Rh. 566.50/ Rmtr		Rs.	8498.00
Rh. 44.34/mtr		Rs.	443.00
Rh 88.68/mtr		Rs	1774.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354625

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

te	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(b)	Above 30.0 mtr	11.00 mtr			Rh. 117.11/mtr	Rs.	1288.00
3)	Supplying of ISI marked 175mm nominal bore, plain end steel carrying pipe - grade, of steel not up of wall thickness 5.4mm thick conforming to IS 4270: 2001, and latest amendments, electric resistance welded steel tube manufactured by basic open hearth electric or basic oxygen process, in random length of 5 to 7 mtrs. both end threaded conforming to IS 554/1985. one end fixed with socket conforming to IS 4270: 2001, and the other end with screwed pipe, all pipe sheet be reasonably free from defects the tubes shall be reasonably straight should be						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	with 1st coating weighing 25.10 kg/mtr (including of all taxes and duties) Price includes cartage - medium duty.						
	= Qty vide premeasurement ref MB No: 2585/14-15 Page No: 258 471/2						
		58.00	mtr	@ Rs. 1325.00/mtr		Rs. 76850.00	
4)	providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50 mm dia nominal bore with all fittings (except which is to be measured and paid for separately) including cost of all material, labour charges, use of equipments and testing specification						
	= Qty vide premeasurement ref MB No: 2585/14-15 Page No: 258 471/2						
		260.00	Rmtr	@ Rs. 298.97/Rmtr		Rs. 77719.00	

ial No. .....
me of Work .....
me of Contractor of nature of Agency .....
e of commencement of work .....

te	Full description, etc, of work
	2
3)	providing 175 mm = Qty
5)	providing 175 mm dia
7)	supplying and draping maintained with

UREMENT BOOK

Dimensions				Contents	Reference to last Measurem
umber 3	Length 4	Breadth 5	Depth 6	7	8
y	25.10 kg/mtr (inclusive of all taxes				
	collar - medium duty.				
	measmt ref MB no: 2585/14-15				
	ge no: 2584 M/2				
	58.0 mtr @ Rs. 1325.00/mtr			Rs. 76850.00	
	ng galvised / mild steel tubes (medium grade				
	t all fittings (except coarse in trenches to be				
	ately including cost of all materials, labour				
	ad fitting specification				
	e premeasmt ref MB no: 2585/14-15				
	page no: 2584 M/2				
	260.00 Rmtr @ Rs. 298.00/Rmtr			Rs. 77719.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354626

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
5)	providing 175 mm dia MS collar.						
	= Qty vide premeasmt ref MB no: 2585/14-15						
	page no: 2584 M/2						
	10.00 each @ Rs. 150.00/each					Rs. 1500.00	
5)	providing 175 mm dia MS cap						
	Qty vide premeasmt ref MB no: 2585/14-15						
	page no: 2584 M/2						
	1.00 each @ Rs. 100.00/each					Rs. 100.00	
6)	supplying and drawing 3 core flat PVC sheathed submersible pump cable. manufactured with electrolytic grade copper with flexible copper with lead						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	resistance conductor confirming to table, and virgin grade, PVC insulation sheathed suitable for voltage = Qty vide Previous Page No: 2584/2			3 Cores	5 q	IS: 8130 - 1984 extruded PVC voltage upto 1100 volts ref MB. No: 2585/14-15	
		520.00	Nos	Rft	151.00/No	Rs.	78520.00
8)	supply and delivery of Ataluba / Calamel / Wavin / Llatwin in 150 mm dia. stage of pump, close delivery to suitable, speed, totally water (well type) spring	site	brand	new	texmo / inmow / kubi-	suitable vertical insta-	
		borewell, confirming		of single	stage or multi-		
		coupled by means		of stainless	steel cup-		
		sealed and		bolted with	pump. Directly		
		cage		submersible	induction motor,	suitable for	

Material No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
	2
	Operating of 3 Ph, 50 Hz, such as Kirloskar. casing coupled free pump, and required. Rating 15 HP 30 stg = Qty no
9)	Supplying and delivery Adhara / GK. Coubro, Control, Rawl, Board wi strong. veins, and wa

ENT BOOK

Dimensions			Contents	Reference to last Measurement
h	Breadth 5	Depth 6	7	8
	3 Class 5 q	IS: 8130 - 1984		
g.	Powder coating	sectional PVC		
	upto 1100 volts	ag. electric		
	ref MB. no: 2585/14-15			
	: 2584 pg			
	Rs 151.00/no	Rs. 78520.00		
d	needed	terminal / inline / cubi-		
la	make, suitable vertical insta-			
	conveying of single stage or multi-			
r	means of stainless steel cast-			
	lined and filled with pure dielectric			
	rubber induction motor, suitable for			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354627

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Operating of 3 Ph, 50 Hz,	380/44 volts		AC supply,		filled with required accessories	
	such as suction. casing	sections of rain,		sand guard,		non return valve etc.	
	complete flow Pump, and	motor shall		from an integrate with		cast steel	
	required. Rating 15 HP 30 stage.						
	= Qty vide Pre measurements	ref MB no: 2585/14-15					
		page no: 2584 pg					
		1.00 No	Rs.	52000.00		Rs. 52000.00	
g)	supplying and delivery	at site brand	new star	/ ISI / Conforming / sum slim /			
	Adhesive / GI. conforming,	best indigenous	make,	combined, surface, multi cut,			
	coated, sand, board	pipes of size	1200 x 600 x 350 mm	minimum		mechanically	
	strong, veins, and water	proof	the	inlet		sluice	two detachable doors,

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	suitable for operation on 3Ph, 50Hz. 380/440 volts, AC supply with spring loaded, latch locking device. with a key. ribs, shall be provided. Inside, the door canopy, apron and cover. with Cotton. shall be provided. the combined supply, with cum. control panel board, with suitable, for operation on 3Ph, 50Hz, 380/440 volts AC supply, shall be consisting of. complete the panel board shall be consisting of: Complete the Panel board shall be fabricated on single. with as in the above. Compound panel board, for suitable, pumps with star delta, starter and door type 10 hp to 15 hp.						
		1x1				= 1.00	
						1.00 each	
		Ph.	10000.00			Rs.	10000.00
10)	supply and fixing 500x500x6.5mm Polished wood board made of mahogany less than 15mm thick in power plant one end provided for locking the other end fixing the base of the valve supply through bolts and nuts,						

rial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work
	2
11)	supply 1.1 kv class us including earth cable co
12)	Labour charges for supplied by agency

ENT BOOK

Dimensions			Contents	Reference to last Measurement
h	Breadth	Depth		
	5	6	7	8
			DHp. 380/440 volts, AC supply- ce. with a bay. ms, sheath, be apron and Cover. vent Cotta. ugy, with cum. control panel. on 3Ph, 50Hz, 380/440 volts AC plies the panel board shall be shall be fabricated on sturdy. with for suitable pumps with star. to 15 HP.	
			= 1.00	
			1.00 Each	
			Rh. 10000.00	Rh. 10000.00
			Polished wood board with ng with- ance and provided for eading cir valves entry through bolts and nuts,	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354628

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

Item	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
		1x1			= 1.00	1.00 Each	
				Rh. 275.00/each		Rh. 275.00	
1	supply 1.1 kv class ng cable. from nearest BESCom pole to Panel board including earth work and road restoration ng cable 16 sqm.						
		1x1	15.35		= 15.35	15.35 mtr	
					Rh. 150.00/mtr	Rh. 2302.50	
2	Labour Charges for laying of 1.1 kv class, ng cable. with. culva- supplied by agency in existing trench. of pit / stones pit / on road /						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	on pole as required	1×1	25.0			= 25.0 25.0 mtr	
						@ Rs. 5.0/mtr Rs. 125.0	
13)	supplying and fixing of porcelain fuse cleats, cleats cut-out on existing wooden/steel angle mounting, nuts, bolts and washers, eg. complete	2×1				= 2.0 2.0 each	
						@ Rs. 219.0/each Rs. 438.0	
14)	supplying and fixing 50 mm non-return valve of vertical type of approved make, including cost of all materials, labour and HOM of equipment with all leads, complete as per specification						
	new bonnet =	1×1				= 1.0	

rial No. .....
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me of Contractor of nature of Agen
te of commencement of work .....

ate	Full description, etc, of work
	2
	For existing bonnet
15)	supplying and fixing bonnet, duly manufa
16)	BESCOM deposit

ENT BOOK

Dimensions			Contents	Reference to last Measurem
th	Breadth 5	Depth 6	7	8
			= 25.00 / 25.00 mtr	Rs. 125.00
Rs. 5.00/mtr				
checking circuit cub-circuit on existing boards and wiring, eg. sockets			= 2.00 / 2.00 each	
Rs. 219.00/each				Rs. 438.00
return value of residual type of materials labour and HSM as per specification			= 1.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354629

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Note	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	For existing boards =	2×1				= 2.00 / 3.00 Nos	
			Rs. 1530.00/Nos				Rs. 4590.00
(15)	supplying and fixing miniature circuit breakers on existing MCB distribution board, wiring fixing materials and testing complete as required.	1×1				= 1.00 / 1.00 each	
			Rs. 1075.00				Rs. 1075.00
(16)	BESCOM deposite charges.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
~~17~~	~~cutting of road surface for~~					Rs. 9500.00	
17)	cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading dangerlighting etc., the cum cutting road.						
	Qty vide Permeasurement reg MB NO: 358/14-15						
	Page NO: 358/22/2						
	1.80 m³ @ Rs. 497.14/cum.					Rs. 895.00	
18)	Earthwork excavation for laying of buildings water supply, sanitary, leig and electrical conduits etc in pits or in trenches 1.5m and above in width in hard soil not exceeding 1.5m in depth						

rial No. .....
me of Work .....
me of Contractor of nature of Agency
te of commencement of work .....

ate	Full description, etc, of work
	2
	including leveling the excavated soil clear leveling of clods, cutt
	= Q
19)	providing and install pipes and specials, and lines level and protect approved type with excavation the pipe dra

ENT BOOK

gth 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurem 8
			Rs. 9500.00	
ding trenches and disposing of cluding barricading danger lighting				
asurement vide MB No: 2585/14-15				
No: 2584 77/2				
Qty. 497.14/cum			Rs. 895.00	
Return of buildings water supply – ed pipes in Pits or in trenches 1.5m ed not exceeding 1.5m in depth				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354630

al No. .....
ne of Work ..... From..... To.....
ne of Contractor of nature of Agency .....
e of commencement of work .....

te	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	including dressing the excavated soil clear leveling of clods complete as per specification = Qty vide measurement vide MB No: 2585/14-15 Page No: 2584 77/2	3.60m³		Qty. 198.21 cum		Rs. 714.00	
2)	providing and installing of 150mm dia P.V.C pipes including cost of pipes and specials, and labour, including lowering into trench, laying true to line level and position including of joints, leak proof including jointing of approved type with all labours and RR clamps, including clamps, including encasing the pipe around to a depth not less than 15cm. with gravel or						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	selected earth. available pith = Qty vide premeasd sy page no: 258+73	from the excavation sty. complete PVC MB No:- 2585/14-15					
		40.00 Rmtr				Rh. 117.00/Rmtr	Rh. 4680.00
280	Refilling available earth exceeding 20 cms. in depth raising after watering with cost of all labours. complete as per specification = Qty vide item no. (19)	around pipe line, cable, in layers. well-compacting each deposited layer by lead upto 50m. and lift upto 1.5m including				= 3.60 / 3.60m³	
		Rh.				Rh.	191.00

rial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work
	2
-1/	Disposing of excavated lead and lift and as = Qty

(Esc
Rh 30/5/17
Add 11 % . 10

ENT BOOK

Dimensions: Length	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Excavation &c.			complete PVC	
procured vide			MB No:- 2585/14-15	
e no: 25773				
Rft. 117.00/Mtr			Rs.	4680.00
pipe line, cables, in layers, well-				
each deposited layer for				
50 cm. and lift upto 1.5 m including				
specifications				
(19)			= 3.60	
			3.60 m³	
Rft. 53.00/cum			Rs.	191.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

355623-

354631

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Disposing of excavated earth to the fixed places of disposal with all lead and lift and as directed by the engineer in charge of work &c.;						
	= Qty vide item no (17)					= 1.80	
						1.80 m³	
						Rft. 106.85/cum	Rs. 192.00
						Total Rs.	441975.00
	Add 11% for PRDR charges					Rs	48617.00
	Add 1% Third Party charges					Rs	4419.00
							490593.00
						Grand Total Rs	495011.00

Verified
30/05

Checked
30/5/17

25/4/17

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate: * Work done is satisfactorily * All debris cleared from the work spot using contractor own vehicle * There are no departmental item for made to the above work. 25/4/17 Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.						

rial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	Nu
	2	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 4906
ಗಳನ್ನು ಮಾತ್ರ ದಾಖಲಿಸಿ : ಇದರಲ್ಲಿ ರೂ 6
ಹೊರಾಂಗಣ ಮಾಡತಕ್ಕಂಥ ಉಳಿದ ಮೊಬಲ 42
Rs. Four lacks Twenty
eight hundred thirty
ಅಕ್ಷರದಲ್ಲಿ ರೂ. 16

T BOOK

sions		Contents	Reference to last Measurem
Breadth 5	Depth 6	7	8

spell out contractor own

for work to the above work.

Engineer,
vision,
.B.M.P.,

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354632

erial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
					Total	490593-00	
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 490593-00						
	ಗಣ್ಯತೆಯನ್ನು ಮಾಡಿದ : ಇದರಲ್ಲಿ ರೂ 64763-00						
	ಮೊತ್ತವಾಗಿ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 425830-00						
	Rs. Four lakh Twenty five thousand eight hundred thirty only						
	ಮೇಲ್ಕಂಡ ಮೊತ್ತಕ್ಕೆ						
	ಅಧಿಕಾರಿಯವರು						
	ಬಿ. ಬಿ. ಎಂ. ಪಿ.						

S.K. Talwandgi 30/06

S.T. - 9812-00
VAT - 19624-00
Cess - 4906-00
CBF - 491-00
FSD - 24530-00
Fine - 5400-00

Add 64763-00
Cess 4,25,830-00